

Amendments to the Drawings:

The attached sheets of drawings for Figures 10, 17, 20 and 21 are being submitted as "Replacement Sheets" to more fully make visible the text within the drawings. No new matter has been added.

REMARKS

Applicants submit the aforementioned amendments and following remarks in response to the Office Action mailed January 29, 2008.

A three-month extension petition is herein requested.

Claims 1-11 and 13-16 are pending. Claims 1, 2, 5, 7, 9, 11, and 13 are canceled. Claims 3, 4, 6, 8, 10, and 14-16 have been amended. No new matter is added.

Reconsideration is respectfully requested in view of the above amendments and the following remarks.

Objections to Drawings, Specification, and Claims

The Figure 17 is objected for lacking compliance with 37 CFR 1.84. Applicants submit herein a Replacement Sheet pursuant to 37 CFR 1.121. In addition, Applicants submit Replacement Sheets for Figures 10, 20, and 21, marked as replacement sheets, to more fully make visible the text within the drawings. No new matter has been added.

The Specification is objected for informality. Applicants amend the specification at page 6, lines 19 to 21.

The Abstract is amended to include a "period" at the end of the last sentence, as suggested by the Examiner.

Claims 3, 4, 6, 11 are also objected for informality. Claims 7 and 9 are objected for being improper dependent form. Applicants amended claims 3, 4 and 6, and canceled claims 7, 9, and 11.

Accordingly, the objections have been overcome and should be withdrawn.

Rejections under 35 U.S.C. § 101

Claims 13 and 16 are rejected under 35 U.S.C. § 101 for directing to non-statutory subject matter. Claims 1-11 and 13-16 are rejected under 35 U.S.C. § 101 for lacking useful returns to the user of the claimed process or apparatus.

In response, Claim 16 is amended to recited "said computer program product comprising a computer readable storage medium and a computer program mechanism".

Also, claims 3, 4, and 6 are amended to recite “thereby quantitating the individual contribution of a mutation or combination of mutations to a drug resistance phenotype exhibited by HIV” to specify a tangible result. Claims 8, 10, and 14-16 are amended to depend on claim 3; whereas claims 1, 2, 5, 7, 9, 11, and 13 are canceled.

Accordingly, the rejection has been overcome and should be withdrawn.

Rejection under 35 U.S.C. § 112, Second Paragraph

Claims 1-11 and 13-16 are also rejected under 35 U.S.C. § 112, second paragraph as being indefinite.

Applicants have amended the claims as suggested by the Examiner.

Accordingly, the rejection has been overcome and should be withdrawn.

Rejection under 35 U.S.C. § 103 (a)

Claims 1, 2, 7-11, 13-16 are rejected under 35 U.S.C. § 103(a) over Servais et al. in view of Carter et al. Claims 1 and 5 are further rejected under 35 U.S.C. § 103(a) over Servais et al. in view of Carter et al and Hughes et al. It is noted that the Examiner does not reject claims 3, 4, and 6 under 35 U.S.C. § 103(a).

Claims 1, 2, 5, 7, 9, 11, and 13 are canceled. Claims 3, 4, and 6 have been written in the forms independent claims. Claims 8, 10, and 14-16 are now amended to depend on claim 3. Therefore, the rejection under 35 U.S.C. § 103(a) is obviated and should be withdrawn.

In view of the foregoing amendment and remarks, allowance of the pending claims 3, 4, 6, 8, 10, and 14-16 is respectfully requested.

Applicants respectfully request that a timely Notice of Allowance be issued in this case.

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Respectfully submitted,

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